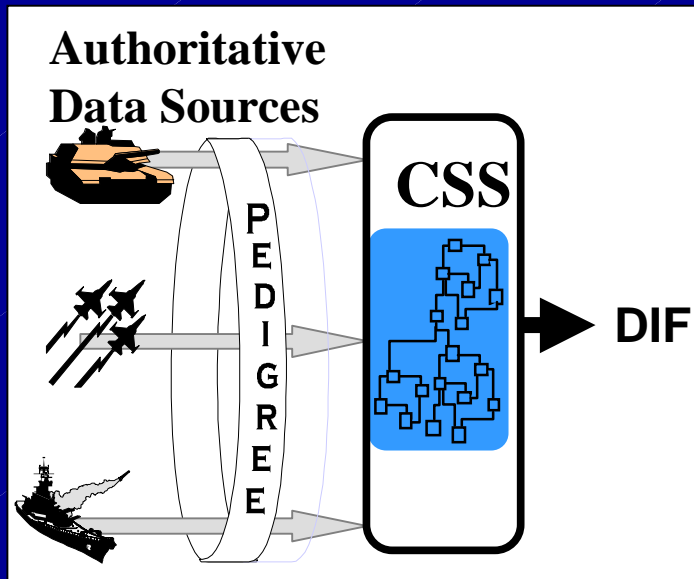


Resource Representation, Data Engineering and VV&A

Industry Days
June 1999

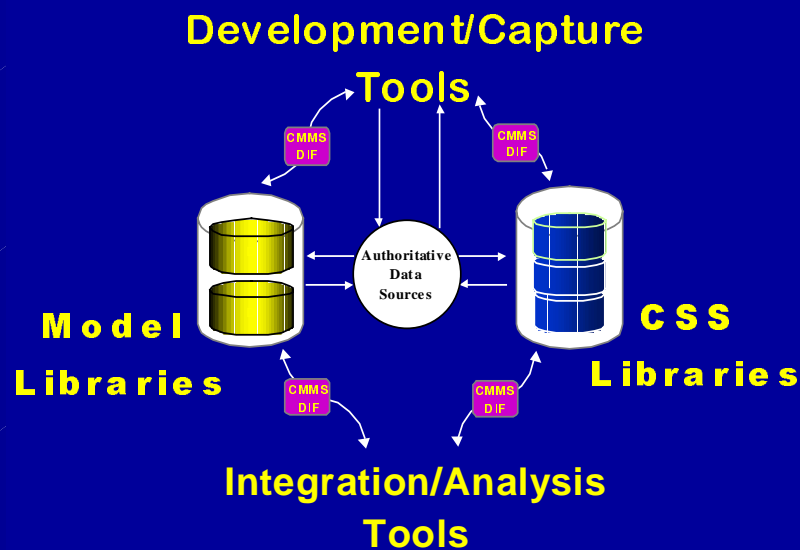
LtCol M. F. “Mac” McKeon, USMC
Chief, Technology Applications Division
Defense Modeling and Simulation Office

Data Engineering



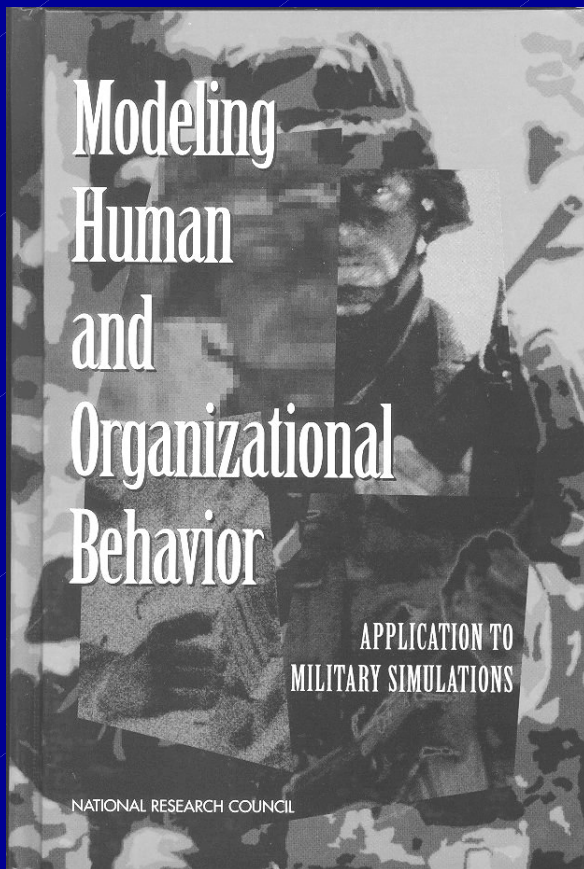
- Identify and access reference information in a cost effective manner
- Develop common semantics and syntax, data interchange formats and supporting tools
- FY98 - Led community efforts to identify and coordinate Authoritative Data Sources (ADS)
- FY99 - Matured data access tools
 - Fielded ADS Library on MSRR
 - Demonstrated data access on-line to Unit Order of Battle data
- FY00 - Assess requirements for Data Engineering and continue tool support

Conceptual Models of the Mission Space (CMMS)



- Unavailable, incomplete or ambiguous mission space information
- Develop standards and tools for CMMS information reuse
- FY98 - Developed CMMS prototype toolset for missions, operations and tasks
- FY99 - Populated CMMS Library
 - JSIMS and NASM delivered conceptual models
 - JWARS support
- FY00 - Continue support to Joint programs and experimentation

Human and Organizational Behavior



www.msosa.dmsa.mil/HOBM
Visit the MSOSA booth

- Inadequate human and organizational behavior representation
- Enabling information exchange and collaboration
- FY98 - Delivered National Research Council report
- FY99 - Sponsored mechanisms for information exchange
 - CGF Conference
 - HOBM Website
- FY00 - Promote collaboration through integration experiments

Verification, Validation & Accreditation

VV&A
Verification, Validation and Accreditation

- **Addressing simulation credibility**
 - Built right?
 - Right thing built?
 - Acceptable for application?
- **Developing practical, efficient and affordable VV&A methods**
- **FY98 - Assess the state of the practice wrt the 1996 RPG (Recommended Practices Guide)**
- **FY99 - Enhanced Policy/Guidance**
 - Revised DoDI 5000.61 and RPG
 - Developed Federation VV&A Process
- **FY00 - Promulgate policy and guidance**
 - Address technological facilitators

Representational Resources Integration Experiments (RRIE)



- Integrate environmental and systems representations
- Develop integration process and procedures
- FY98/99 - Initiated 3 experiments
 - Global War Game
 - Advanced Amphibious Assault Vehicle (AAAV)
 - Grizzly Breaching System
 - Publish technical report
- FY00 - Develop and publish broadly applicable integration procedures

SEDRIS



<http://www.sedris.org>
Visit the SEDRIS booth

- Improve access to environmental information at reduced cost
- Specify an environmental data interchange mechanism
- FY98 - Completed a data representation model and a read interface
- FY99 - Developed initial transmittal format, write interface, coding standard, and spatial reference model
- FY00 - Integrated focus on partnerships and user services